



December 14, 2016

1516 Ninth Street
Art Rosenfeld Hearing Room – First Floor
Sacramento, California 95814

10 a.m.

(Wheelchair Accessible)

THE COMMISSION WILL CONSIDER AND MAY TAKE ACTION ON THE FOLLOWING ITEMS:

1. CONSENT CALENDAR. (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
 - a. ~~MEMORANDUM OF UNDERSTANDING BETWEEN THE U.S. DEPARTMENT OF THE INTERIOR AND THE STATE OF CALIFORNIA.~~ Proposed resolution approving the Executive Director to enter into a Memorandum of Understanding between the U.S. Department of the Interior and the State of California, and the state and federal agencies involved in the development of renewable energy in California, to provide for the continued collaboration on the development of renewable energy in California, in streamlining the permitting and review of proposed renewable energy generation projects, and in planning for the development of additional renewable energy generation both on and offshore California. This includes coordinated efforts surrounding information sharing and development of data resources to support renewable energy in California. Contact: Jennifer Nelson.
 - b. THE VIRTUAL ENVIRONMENT TITLE 24: 5.0. Proposed resolution approving The Virtual Environment Title 24: 5.0 (VE Title 24: 5.0), by Integrated Environmental Solutions Ltd, as an alternative calculation method for demonstrating performance compliance with the nonresidential provisions of the 2016 Building Energy Efficiency Standards, California Code of Regulations, Title 24, Part 6, and associated administrative regulations in Part 1, Chapter 10 (Standards). (Cal. Code Regs., tit. 24, §§ 10-109 (c)2). Contact: RJ Wichert.
 - c. THE SOLAR FOUNDATION. Proposed resolution approving agreement 150-16-007 with the Solar Foundation for a \$2,500 sponsorship contract to support the research and implementation of the 2016 Solar Jobs Census, including California specific data. (ERPA funding). Contact: Rachel Grant Kiley.

- d. ALLIANCE TO SAVE ENERGY. Proposed resolution approving Agreement 150-16-008 with Alliance to Save Energy for a \$25,000 contract to renew the Energy Commission's membership for one year. Membership allows Energy Commission staff to meet with key policy and decision makers and officials from over 100 organizations to advance energy efficiency through unique and effective policy, market transformation, education, communications, and research and technology initiatives. These meetings provide a forum for exchanging information, ideas and resources. (ERPA funding) Contact: Rachel Grant Kiley.
 - e. THE LEVY PARTNERSHIP, INC. Proposed resolution approving Amendment 2 to Grant Agreement PIR-12-028 with The Levy Partnership, Inc. to revise the percentage of state funds spent in California and paid to California Based Entities by making adjustments to the budget, deliverable schedule, and other administrative changes. (PIER funding) Contact: Bradley Meister.
 - f. ASETTEK USA, INC. Proposed resolution approving Amendment 2 to Grant Agreement EPC-14-088 with Asetek USA, Inc. to change a demonstration site, add subcontractors, reallocate the budget, and revise the schedule and Scope of Work to reflect the new site. (EPIC funding) Contact: Cecelia Golden.
 - g. MODOC JOINT UNIFIED SCHOOL DISTRICT. Proposed resolution approving Amendment 2 to Grant Agreement GEO-14-002 with Modoc Joint Unified School District for a 12-month no-cost time extension and budget reallocation. The budget reallocation is necessary to accommodate unexpected increased costs for the injection well drilling. The time extension is needed to allow the grantee to complete the school building geothermal heating retrofit work during the summer when the existing heating system is not in use and students are off campus. Contact: Cheryl Closson.
 - h. L'MONTE INFORMATION SERVICES. Proposed resolution approving CMAS contract for Information Technology (IT) Consulting Services, RFO 16-409-00-004, for the Standard Data Dictionary (SDD) Expansion Support Services with L'Monte Information Services for \$149,500. This SDD has data structures and properties for defining all components of a building that are evaluated in assessing its energy efficiency. The Contractor shall expand the Energy Commission's current SDD to support multiple additional use cases in the building energy efficiency domain. This CMAS contract is in support of the Energy Data Lake project. (ERPA funding) Contact: Christine Awtrey.
2. ENERGY COMMISSION COMMITTEE APPOINTMENTS. Possible approval of appointments to the Energy Commission's Standing Committees and Siting Case Committees. Contact: Kevin Barker. (Staff presentation: 5 minutes)
 3. STANTON ENERGY RELIABILITY CENTER (16-AFC-01). Proposed order approving the Executive Director's recommendation to find the Stanton Energy Reliability Center application for certification incomplete in nine technical areas: Air Quality, Cultural Resources, Geological Hazards, Project Overview, Reliability, Socioeconomics, Traffic and Transportation, Transmission System Design and Water Resources. The Stanton Energy Reliability Center would consist of two General Electric LM6000 PC natural gas-fired combustion turbine generators and related facilities, with integrated batteries for hybrid operation and clutch gear for synchronous condenser operation. The project would be located on a vacant 3.978 acre portion of an industrial zoned site in the city of Stanton, west of the Southern California Edison Barre Substation in Orange County. Contact: John Heiser. (Staff presentation: 10 minutes)

4. **ABENGOA MOJAVE SOLAR PROJECT (09-AFC-05C).** Proposed resolution approving the Mojave Solar Settlement Agreement with Mojave Solar, LLC to resolve alleged violations of certain regulations of the California Fire Code, California Code of Regulations, Title 24, Part 9, Chapter 9. Under the settlement agreement, Mojave Solar, LLC agrees to three new conditions of certification, GEN-1.1, GEN-1.2, and GEN-1.3 to ensure that the Energy Commission is made aware of any impairment of, and repairs to, fire protection water mains during the life of the project, ensure the operational readiness and reliability of the fire protection water mains, and ensure the proper fire protection system impairment practices and procedures are in place, and to pay \$51,000 to the Energy Commission. In return, the Energy Commission agrees to close the matter without further action or litigation. Contact: Christine Root. (Staff presentation 10 minutes)
5. **CITY OF BURBANK.** Proposed order approving the Executive Director's recommendation that the City of Burbank's Second Amendatory Power Sales Contract for the procurement of natural gas-fired combined cycle energy with Intermountain Power Agency be found compliant with the Emissions Performance Standard for Local Publicly Owned Electric Utilities pursuant to Senate Bill 1368 (California Code of Regulations, Title 20, Sections 2900-2913). Contact: Michael Nyberg. (Staff presentation: 5 minutes)
6. **CITY OF RIVERSIDE.** Proposed order approving the Executive Director's recommendation that the City of Riverside's Second Amendatory Power Sales Contract for the procurement of natural gas-fired combined cycle energy with Intermountain Power Agency be found compliant with the Emissions Performance Standard for Local Publicly Owned Electric Utilities pursuant to Senate Bill 1368 (California Code of Regulations, Title 20, Sections 2900-2913). Contact: Michael Nyberg. (Staff presentation: 5 minutes)
7. **ENERGY EFFICIENCY REGULATIONS FOR COMPUTERS, COMPUTER MONITORS, SIGNAGE DISPLAYS, AND BATTERY CHARGERS (16-AAER-02).** Hearing and consideration of proposed resolution approving the following items. Contact: Soheila Pasha. (Staff presentation: 20 minutes)
 - a. **NEGATIVE DECLARATION FOR ENERGY EFFICIENCY STANDARDS FOR COMPUTERS AND COMPUTER MONITORS.** Proposed resolution approving the Negative Declaration, including a finding of No Significant Impact under the California Environmental Quality Act (CEQA), for the proposed energy efficiency standards for computers and computer monitors. This adoption hearing comes after the end of the 30-day comment period necessary to comply with CEQA guidelines.
 - b. **AMENDMENTS TO THE APPLIANCE EFFICIENCY REGULATIONS** Proposed resolution approving amendments to the Appliance Efficiency Regulations in Title 20 of the California Code of Regulations relating to energy efficiency standards for computers, computer monitors, signage displays, and battery chargers. The proposed standards would reduce electricity consumption by improving the efficiency of computers and computer monitors, and clarify scope, definitions, and requirements for signage displays and certain non-consumer battery charger systems. This adoption hearing comes after a 45-day and separate 15-day comment period.
8. **PROPOSED ADOPTION OF THE SENATE BILL NO. 350 (SB 350) LOW-INCOME BARRIERS STUDY, PART A (16-OIR-02).** Proposed resolution adopting the Low-Income Barriers Study, Part A: Overcoming Barriers to Energy Efficiency and Renewables for Low-Income Residents and Small Business Contracting Opportunities in

- Disadvantaged Communities, prepared pursuant to SB 350 (De León, Chapter 547, Statutes of 2015), which requires the Energy Commission to complete and publish a study that explores the barriers to and opportunities for expanding low-income residents' access to energy efficiency, weatherization, and renewable energy. The study also examines barriers and opportunities related to contracting with small businesses located in disadvantaged communities. The study concludes with recommendations intended to have a transformative effect on the obstacles facing low-income residents and small businesses in disadvantaged communities. Contact: Alana Mathews. (Staff presentation: 15 minutes)
9. **VOLUNTARY CALIFORNIA QUALITY LIGHT EMITTING DIODE (LED) LAMP SPECIFICATION, VERSION 3.0.** Proposed resolution adopting updates (Version 3.0) to the Energy Commission's Voluntary California Quality LED Lamp Specification (Specification). The original Specification (Version 1.0) was published in December 2012 and was based upon a draft ENERGY STAR specification for LEDs and CFLs. In 2014, the Energy Commission adopted Version 2.0 of the Specification, which aligned with ENERGY STAR Product Specification for Lamps, version 1.1. In Version 3.0, the Energy Commission proposes to align the Specification with the Energy Commission's upcoming Title 20 appliance efficiency standards for state-regulated LED lamps. This update will help prepare the market for the upcoming appliance efficiency standards for state-regulated LED lamps by encouraging voluntary "early adoption" of these standards. Contact: Soheila Pasha. (Staff presentation: 10 minutes)
 10. **CONSOL HOME ENERGY EFFICIENCY RATING SERVICES (CHEERS).** Proposed resolution approving (CHEERS') application for certification as a California Home Energy Rating System (HERS) provider for HERS raters conducting field verification and diagnostic testing for energy efficiency measures to demonstrate compliance with the 2016 Building Energy Efficiency Standards for Residential Buildings and the CHEERS HERS data registry as a residential data registry. Contact: Suzie Chan. (Staff presentation: 5 minutes)
 11. **CALIFORNIA ENERGY DEMAND FORECASTS.** Proposed resolution approving Forms and Instructions for Submitting Electricity Demand Forms for the 2017 Integrated Energy Policy Report. These forms ask load-serving entities to provide the Energy Commission with load data, economic/demographic information, demand-side management impacts, and other data related to energy demand for the historical years 2015-2016 and the forecast years 2017-2028. Contact: Cary Garcia. (Staff presentation: 5 minutes)
 12. **ELECTRICITY RESOURCE PLANS.** Proposed resolution approving Forms and Instructions for Submitting Electricity Resource Plans in support of the 2017 Integrated Energy Policy Report. These forms ask load-serving entities in California to submit plans showing how demand for energy and annual peak load will be met by specific supply resources. Contact: John Hingtgen. (Staff presentation: 5 minutes)
 13. **DOUGLAS DEUR, PH.D., LLC.** Proposed resolution approving Agreement 700-16-001 with Douglas Deur, Ph.D., LLC for a \$225,852 contract to work closely with several Native American Tribes and the Energy Commission to document renewable energy compliance processes, case examples, and tribal perceptions of the renewable energy processes including facility siting, amendment, construction and mitigation concepts as relates to cultural resources identification, assessment, discovery and mitigation. The consultant will produce a draft and a final report. The work authorized by this contract ensues from the Genesis Discovery Mitigation Plan, and upon completion will fulfill a part of the required mitigations agreed to in consultation with project-affiliated tribes.

(Special Deposit Fund GSEP Mitigation funding) Contact: Thomas Gates. (Staff presentation: 5 minutes)

14. NORTH NET TRAINING AUTHORITY. Proposed resolution approving Agreement 002-16-ECD for an ECAA funded loan of \$136,000 at one percent interest to the North Net Training Authority (Authority) to replace air handling units and to install a new direct digital control system at the existing HVAC system. Upon completion, the project will reduce about 46,000 kWh of grid electricity consumption annually, saving the Authority an estimated \$8,000 in utility costs. In addition, the project will reduce about 15.8 tons of carbon dioxide equivalent (CO₂e) GHG emissions every year. Based on the loan amount and utility cost saving, the simple payback is approximately 17 years. (ECAA funding) Contact: Shahid Chaudhry. (Staff presentation: 5 minutes)
15. DC FAST CHARGERS FOR CALIFORNIA'S INTERREGIONAL CORRIDORS, GFO-15-603. This solicitation sought proposals to install direct current (DC) fast-charging stations on California corridors. These electric vehicle charging stations will allow electric vehicle drivers to travel the entire length of each corridor with an increased confidence in their vehicle's range and re-charging capabilities. (ARFVTP funding) Contact: Brian Fauble. (Staff presentation: 10 minutes)
 - a. CHARGEPOINT, INC. Proposed resolution approving Agreement ARV-16-005 with ChargePoint, Inc. for a \$9,270,141 grant to install direct current fast charging stations with both CHAdeMO and SAE CCS standard connectors, as well as level 2 charging stations at sites along I-15; North of Victorville to West of Nevada, SR-101; South of Oregon to Garberville, I-10; Beaumont to Blythe, SR-101; Leggett to North of Santa Rosa, I-80; Auburn to West of Nevada, US-50; Placerville to South Lake Tahoe, SR-14; East of Santa Clarita to Inyokern, SR-58; East of Bakersfield to Lenwood, SR-152; SR-99 to East of Gilroy, SR-120; Oakdale to Yosemite, SR-12; Fairfield to Lodi, I-505; Vacaville to Dunnigan, SR-49; Auburn to Grass Valley, and I-205/I-580; and Ulmar to Tracy.
 - b. EV CONNECT, INC. Proposed resolution approving Agreement ARV-16-006 with EV Connect, Inc. for a \$2,151,622 grant to install direct current fast charging stations with both CHAdeMO and SAE CCS standard connectors, as well as dual-port level 2 charging stations at sites along SR-14; East of Santa Clarita to Inyokern, I-10; Beaumont to Blythe, and SR-12; Fairfield to Lodi.
16. IMPROVING PERFORMANCE AND COST EFFECTIVENESS OF SMALL HYDRO, GEOTHERMAL AND WIND ENERGY TECHNOLOGIES, GFO-16-301. This solicitation sought proposals to fund applied research and development projects to develop advanced technologies and strategies that will help expand California's use of in-conduit hydrokinetic power, improve the cost-effectiveness of geothermal energy generation, and upgrade California's aging wind turbines. The solicitation will enable higher penetrations of renewable energy into California's electricity mix. (EPIC funding) Contact: Silvia Palma-Rojas. (Staff presentation: 10 minutes)
 - a. SRI INTERNATIONAL. Proposed resolution approving Agreement EPC-16-020 with SRI International for a \$873,387 grant to demonstrate a cost-effective integrated process for the recovery of lithium from geothermal brines based on cutting-edge processes that combine new materials and techniques to capture lithium from the brines and employ eco-friendly solutions to regenerate and re-use process materials. The co-production of this valuable metal adds revenue and improves the economics of geothermal energy generation.

- b. DOE-LAWRENCE BERKELEY NATIONAL LABORATORY. Proposed resolution approving Agreement EPC-16-021 with the Department of Energy's Lawrence Berkeley National Laboratory for a \$1,672,639 grant to develop an integrated approach that combines low-cost, dense seismic networks with established state-of-the-art micro-earthquake imaging algorithms and rock physics concepts into a system that can be cost-effectively, reliably and routinely deployed in operating geothermal fields to image subsurface flows. The ability to spatially visualize the major conduits for the transport of water and steam during injection and production is critical information that can be used to increase capacity at a lower cost.
 - c. DOE-LAWRENCE BERKELEY NATIONAL LABORATORY. Proposed resolution approving Agreement EPC-16-022 with the Department of Energy's Lawrence Berkeley National Laboratory for a \$999,032 grant to address the specific challenges of base-load and flexible-mode geothermal production, including wellbore and reservoir integrity, and scaling and corrosion of wellbores. An improved thermal-hydrological-mechanical-chemical model will be developed to better predict impacts of flexible-mode production on both liquid-dominated and vapor-dominated geothermal reservoir systems to ensure safe and sustainable production.
17. 2016 EXISTING BUILDINGS ENERGY EFFICIENCY ACTION PLAN UPDATE. Proposed resolution adopting the final 2016 Existing Buildings Energy Efficiency Action Plan Update. The 2016 Action Plan Update was prepared pursuant to a section of Senate Bill Number 350 (De León, Chapter 547, Statutes of 2015), as codified in Public Resources Code section 25943(f)(2). This provision requires the Energy Commission to provide an update to the existing buildings program by January 1, 2017, and every three years thereafter. The 2016 Action Plan Update is the first update to the 2015 Existing Buildings Energy Efficiency Action Plan. This 2016 Action Plan Update summarizes actions taken over the last 15 months to implement the existing buildings energy efficiency program. It also provides an overview of future activities within the program, revises certain strategies, and updates certain timelines. Contact: Martha Brook. (Staff presentation: 5 minutes)
18. DISCUSSION OF ENERGY COMMISSION PROGRESS RE IMPLEMENTATION OF THE CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (SB NO. 350). Staff presentation and Commissioner discussion regarding Energy Commission progress on and planned actions for implementation of Senate Bill No. 350 requirements, including but not limited to administration of the California Renewables Portfolio Standard program, review of local publicly owned electric utility integrated resource plans, revision of Commission data collection regulations to improve demand forecasting, identification of progress in meeting the Bill's goals of 50% renewables procurement and doubling of energy efficiency, implementation of widespread transportation electrification, and preparation and publication of the study required by Public Resources Code section 25327 regarding barriers for low-income customers to energy efficiency and weatherization investments. Contact: Michael Sokol. (Staff presentation: 5 minutes)

- a. **IMPLEMENTATION OF SB 350 ACTIVITY IN THE EXISTING BUILDINGS ENERGY EFFICIENCY ACTION PLAN (STRATEGY 1.7) THE LOCAL GOVERNMENT CHALLENGE.** Staff presentation and Commissioner discussion regarding Energy Commission actions for implementing the Local Government Challenge grant program. The Local Government Challenge grant program is Strategy 1.7 in the Existing Building Energy Efficiency Action Plan under Local Government Leadership. The Energy Commission has \$10.2 million of American Recovery and Reinvestment Act of 2009 (ARRA) funding to competitively award small and large grants to local governments to fund energy-saving action plans, performance-based energy projects and pilot projects aiming to reduce existing building energy consumption. Contact: Anne Fisher. (Staff presentation: 10 minutes)
 - b. **INTEGRATED RESOURCE PLAN UPDATE.** Staff presentation on the integrated resource plans that will describe how publicly-owned utilities propose to align their demand and supply resource choices with the energy and policy goals outlined in SB 350. Staff will summarize activities to date on publicly owned utility guidelines preparation, collaboration on Energy Commission workshops on transportation electrification and renewables, interactions with other agencies, and next steps. Contact: Sylvia Bender. (Staff presentation: 5 minutes)
19. **Minutes:** Possible approval of the November 9, 2016 Business Meeting minutes.
 20. **Lead Commissioner or Presiding Member Reports.** A Lead Commissioner on a policy matter may report to the Commission on the matter and discussion may follow. A Presiding Member on a delegated committee may report to the Commission on the matter and discussion may follow.
 21. **Chief Counsel's Report:** Pursuant to Government Code section 11126(e), the Energy Commission may adjourn to closed session with its legal counsel to discuss any of the following matters to which the Energy Commission is a party:
 - a. *In the Matter of U.S. Department of Energy (High Level Waste Repository), (Atomic Safety Licensing Board, CAB-04, 63-001-HLW).*
 - b. *Communities for a Better Environment and Center for Biological Diversity v. Energy Commission* (Court of Appeal, First Appellate District, # A141299).
 - c. *Energy Commission v. SoloPower, Inc. and SPower, LLC.* (Sacramento County Superior Court # 34-2013-00154569)
 - d. *Energy Commission v. Mendota Bioenergy, LLC.* (Sacramento County Superior Court #34-2016-00192835)
 - e. Matter pending with the Department of Industrial Relations.

Pursuant to Government Code section 11126(e), the Energy Commission may also discuss any judicial or administrative proceeding that was formally initiated after this agenda was published; or determine whether facts and circumstances exist that warrant the initiation of litigation, or that constitute a significant exposure to litigation against the Commission, which might include:

 - a. Claims filed at, and rejected by, the Victim Compensation and Government Claims Board against a number of defendants including the Energy Commission relating to the gas leak at Aliso Canyon.
 - b. Grant ARV-11-012 with Electricore, Inc.

22. **Executive Director's Report.**
23. **Public Adviser's Report.**
24. **Public Comment:** People may speak up to three minutes on any matter concerning the Energy Commission, with the exception of items appearing elsewhere on this agenda or items related to pending adjudicative (certification or enforcement) proceedings.

If you require special accommodations, contact Poneh Jones at 916-654-4425, five days before the meeting.

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Adjournment of Hearings and Meetings: Depending upon time available and the orderly management of proceedings, the Commission may order adjournment (recess or postponement) of any noticed hearing or meeting, to be continued to the next day, another specific date or time, or to the next business meeting, as appropriate. Any such adjournment will be noticed at the time the order of adjournment is made (Government Code §§11128.5, 11129).
